

April 19, 2016

Report to:

Philip Nerenberg
Apex Laboratories
12232 S W Garden Place
Tigard, OR 97223

Bill to:

Philip Nerenberg
Apex Laboratories
12232 SW Garden Place
Tigard, OR 97223

Project ID: A6C1124

ACZ Project ID: L29960

Philip Nerenberg:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 16, 2016. This project has been assigned to ACZ's project number, L29960. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L29960. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 19, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and approved this report.



APEX LABORATORIES

Level IV Data Package – L29960 Table of Contents

1. Analytical Report Cover Page 1
2. Table of Contents 2
3. Sample Summary Page 3
4. Case Narrative 4
5. Inorganic Analytical Results - Pages 5 to 16
 - a. Total Metals, Dissolved Metals
 - b. Inorganic Reference Page
 - c. Inorganic QC Summary
 - i. Calibration data
 - ii. LCSW, LFB, PBW, PQV results
 - iii. Matrix/Analytical Spike Recoveries
 - iv. Duplicate Precision
 - d. Inorganic Extended Qualifier Page
 - e. Certification Qualifiers
6. Inorganic Raw Data- Pages - Pages 17 to 29
7. Run Logs- Page 30 to 31
8. Sample Receipt Documents- Pages 32to 35
 - a. Sample Receipt Form
 - b. Chain of Custody – Copy

ACZ Project ID: **L29960**

SAMPLE ID	LAB NO.	SAMPLE DATE	SAMPLE TIME
A6C1124-02	L29960-01	3/29/2016	10:15
A6C1124-04	L29960-02	3/29/2016	10:35
A6C1124-06	L29960-03	3/29/2016	11:15
A6C1124-08	L29960-04	3/29/2016	12:00
A6C1124-10	L29960-05	3/29/2016	13:15
A6C1124-12	L29960-06	3/29/2016	13:40
A6C1124-14	L29960-07	3/29/2016	14:25
A6C1124-16	L29960-08	3/29/2016	15:10

Apex Laboratories

April 19, 2016

Project ID: A6C1124

ACZ Project ID: L29960

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 8 miscellaneous samples from Apex Laboratories on April 16, 2016. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L29960. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

The analysis was not performed within EPA recommended holding times. Samples were received after the hold time had expired.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-02ACZ Sample ID: **L29960-01**
Date Sampled: 03/29/16 10:15
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:26	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-04ACZ Sample ID: **L29960-02**
Date Sampled: 03/29/16 10:35
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:29	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-06ACZ Sample ID: **L29960-03**
Date Sampled: 03/29/16 11:15
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:32	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-08ACZ Sample ID: **L29960-04**
Date Sampled: 03/29/16 12:00
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:35	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-10ACZ Sample ID: **L29960-05**
Date Sampled: 03/29/16 13:15
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:38	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-12ACZ Sample ID: **L29960-06**
Date Sampled: 03/29/16 13:40
Date Received: 04/16/16
Sample Matrix: *Leachate*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:47	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-14ACZ Sample ID: **L29960-07**
Date Sampled: 03/29/16 14:25
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:50	sck

Apex LaboratoriesProject ID: A6C1124
Sample ID: A6C1124-16ACZ Sample ID: **L29960-08**
Date Sampled: 03/29/16 15:10
Date Received: 04/16/16
Sample Matrix: Leachate

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thiocyanate as SCN	SM4500-CN M	1		UH	*	mg/L	0.1	0.5	04/18/16 16:53	sck

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

Apex Laboratories

ACZ Project ID: **L29960**

Thiocyanate as SCN

SM4500-CN M

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401560													
WG401560ICV	ICV	04/18/16 15:30	WC151217-3	2		1.97	mg/L	99	90	110			
WG401560ICB	ICB	04/18/16 15:32				U	mg/L		-0.3	0.3			
WG401560LFB	LFB	04/18/16 15:35	WC151217-7	2.5		2.43	mg/L	97	80	120			
WG401560CCV1	CCV	04/18/16 16:05	WC151217-6	5		5	mg/L	100	90	110			
WG401560CCB1	CCB	04/18/16 16:08				U	mg/L		-0.3	0.3			
WG401560CCV2	CCV	04/18/16 16:41	WC151217-6	5		5	mg/L	100	90	110			
WG401560CCB2	CCB	04/18/16 16:44				U	mg/L		-0.3	0.3			
L29960-08AS	AS	04/18/16 16:56	WC151217-7	2.5	U	2.57	mg/L	103	80	120			
L29960-08DUP	DUP	04/18/16 16:59			U	U	mg/L				0	20	RA
WG401560CCV3	CCV	04/18/16 17:01	WC151217-6	5		5	mg/L	100	90	110			
WG401560CCB3	CCB	04/18/16 17:04				U	mg/L		-0.3	0.3			

Apex Laboratories

ACZ Project ID: **L29960**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L29960-01	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-02	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-03	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-04	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-05	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-06	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-07	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29960-08	WG401560	Thiocyanate as SCN	SM4500-CN M	H3	Sample was received and analyzed past holding time.
			SM4500-CN M	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Apex Laboratories

ACZ Project ID: **L29960**

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Thiocyanate as SCN

SM4500-CN M

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
 QCListMatClass: LIQUID
 Bench Sheet List: I-SPEC-CN-THIO
 QC Ref: icv/b-ccv/b-dup-as
 Group ID: WC-G-SPC-CN-THIO
 Method Ref: SM4500 CN M
 SOP Ref: SOPWC022

WG401560



ACZ Laboratories, Inc

Instrument ID: SPEC2
 Analyst: sck
 ACZ Dept: 37
 Create Date: 04/18/2016 13:14
 Start Date/Time: 04/18/2016 15:30
 End Date/Time: 04/18/2016 17:05

SE	ACZ ID	Client ID	SubSX	Pri	Analysis Date	Cyanide	pH	filter date	Dilution	Comments
Q						(mg/L)	(pH)			

1	WG401560ICV	WC151217-3	black		04/18/16 15:30	1.969	1		1	
2	WG401560ICB	NONE	black		04/18/16 15:32	0	1		1	
3	WG401560LFB	WC151217-7	black		04/18/16 15:35	2.427	1		1	
4	L29915-01	A6C1076-02	black		04/18/16 15:38	0	1		1	
5	L29915-02	A6C1076-04	black		04/18/16 15:41	0	1		1	
6	L29915-03	A6C1076-06	black		04/18/16 15:44	0	1		1	
7	L29915-04	A6C1076-08	black		04/18/16 15:47	0.016	1		1	
8	L29915-05	A6C1076-10	black		04/18/16 15:50	0	1		1	
9	L29915-06	A6C1076-12	black		04/18/16 15:53	0	1		1	
10	L29915-07	A6C1076-14	black		04/18/16 15:56	0	1		1	
11	L29915-08	A6C1076-16	black		04/18/16 15:59	0	1		1	
12	L29915-09	A6C1076-18	black		04/18/16 16:02	0	1		1	
13	WG401560CCV1	WC151217-6	black		04/18/16 16:05	4.995	1		1	
14	WG401560CCB1	NONE	black		04/18/16 16:08	0	1		1	
15	L29915-10	A6C1076-20	black		04/18/16 16:11	0	1		1	
16	L29915-10AS	WC151217-7	black		04/18/16 16:14	2.498	1		1	
17	L29915-10DUP	NONE	black		04/18/16 16:17	0	1		1	
18	L29915-11	A6C1076-22	black		04/18/16 16:20	0	1		1	
19	L29959-04	A6C1134-08	black		04/18/16 16:23	0.008	1		1	
20	L29960-01	A6C1124-02	black		04/18/16 16:26	0	1		1	
21	L29960-02	A6C1124-04	black		04/18/16 16:29	0	1		1	
22	L29960-03	A6C1124-06	black		04/18/16 16:32	0	1		1	
23	L29960-04	A6C1124-08	black		04/18/16 16:35	0.019	1		1	
24	L29960-05	A6C1124-10	black		04/18/16 16:38	0.033	1		1	

Report Comments: _____

AREV: Sck 4/19/16
 Initials, Date

Internal Comments: _____

SREV: ABD 4/19/16
 Initials, Date

L29960-1604191556

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
 QCListMatClass: LIQUID
 Bench Sheet List: I-SPEC-CN-THIO
 QC Ref: icv/b-ccv/b-dup-as
 Group ID: WC-G-SPC-CN-THIO
 Method Ref: SM4500 CN M
 SOP Ref: SOPWC022

WG401560



Instrument ID: SPEC2
 Analyst:
 ACZ Dept: 37
 Create Date: 04/18/2016 13:14
 Start Date/Time: 04/18/2016 15:30
 End Date/Time: 04/18/2016 17:05

SE	ACZ ID	Client ID	SubSX	Pri	Analysis Date	Cyanide	pH	filter date	Dilution	Comments
Q						(mg/L)	(pH)			
25	WG401560CCV2	WC151217-6	black		04/18/16 16:41	4.998	1		1	
26	WG401560CCB2	NONE	black		04/18/16 16:44	0	1		1	
27	L29960-06	A6C1124-12	black		04/18/16 16:47	0.089	1		1	
28	L29960-07	A6C1124-14	black		04/18/16 16:50	0.014	1		1	
29	L29960-08	A6C1124-16	black		04/18/16 16:53	0.022	1		1	
30	L29960-08AS	WC151217-7	black		04/18/16 16:56	2.571	1		1	
31	L29960-08DUP	NONE	black		04/18/16 16:59	0.024	1		1	
32	WG401560CCV3	WC151217-6	black		04/18/16 17:01	5.003	1		1	
33	WG401560CCB3	NONE	black		04/18/16 17:04	0	1		1	

Report Comments: _____

AREV: _____

Initials, Date

Internal Comments: _____

SREV: _____

Initials, Date

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
QCListMatClass: LIQUID
Bench Sheet List: I-SPEC-CN-THIO
QC Ref: icv/b-ccv/b-dup-as
Group ID: WC-G-SPC-CN-THIO
Method Ref: SM4500 CN M
SOP Ref: SOPWC022

WG401560



Instrument ID: SPEC2
Analyst: sck
ACZ Dept: 37
Create Date: 04/18/2016 13:14
Start Date/Time: 04/18/2016 15:30
End Date/Time: 04/18/2016 17:05

Sample	Login Comments
L29915-01	BK
L29915-02	BK
L29915-03	BK
L29915-04	BK
L29915-05	BK
L29915-06	BK
L29915-07	BK
L29915-08	BK
L29915-09	BK
L29915-10	BK
L29915-11	BK
L29959-04	BK
L29960-01	BK
L29960-02	BK
L29960-03	BK
L29960-04	BK
L29960-05	BK
L29960-06	BK
L29960-07	BK
L29960-08	BK

Report Comments: _____

AREV: _____

Initials, Date

Internal Comments _____

SREV: _____

Initials, Date

L29960-1604191556

WET CHEMISTRY SPEC / ISE PROBE DATA REVIEW CHECKLIST

AREV: SCL
Date: 4/19/16

Work Group: 401560
Sample Type: SCN
Analysis Date: 4/18/16
Analyst: SCL

SREV: ABD
Date: 4/19/16

Instrument Checklist

	Yes	No	N/A
1.) Is the calibration passing ($r \geq 0.995$ for Spec or $m = -59.16 \pm 5\%$ for Fluoride)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.) Are all of the QC criteria listed in LIMS within specified limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.) Are dilutions in the appropriate range (explain if "B" or "U" reported for sample)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.) Is any sample analyzed on dilution appropriately "D" qualified (not required for o-cal)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.) Was each sample analyzed within method holding time? Flag data if "No."	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.) Are all errors properly corrected (i.e. single-line crossout, dated & initialed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.) Is a current standard/reagent sheet attached to the workgroup?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.) FOR SREV: QA/QC approval for initial training or 2 sets of initials for WG & LIMS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

"R" or "m" = 1.000

Spec Calibration Workgroup: 401560

Digestion Temp °C : —

Time In: —

Disposable Vessel Lot# —

Time Out: —

For any item listed above that is checked "No" state the corrective action/explanation in the sections below.

QC/Sample ID	Analytical Problem	Corrective action
<u>915-01 to-11</u>	<u>post hold</u>	<u>H3</u>
<u>959-04</u>	<u>↓</u>	<u>L</u>
<u>900-01 to-08</u>	<u>↓</u>	<u>↓</u>

Comments:

*Workgroup documentation must include the lot number(s) of all disposable vessels used for volumetric measurements.

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
 QCListMatClass: LIQUID
 Bench Sheet List: I-SPEC-CN-THIO
 QC Ref: icv/b-ccv/b-dup-as
 Group ID: WC-G-SPC-CN-THIO
 Method Ref: SM4500 CN M
 SOP Ref: SOPWC022

WG401560



ACZ Laboratories, Inc

Instrument ID: SPEC2
 Analyst: SKL
 ACZ Dept: 37
 Create Date: 04/18/2016 13:14
 Start Date/Time: L 3:30pm
 End Date/Time: L 5:05pm

SE	ACZ ID	Client ID	SubSX	Pri	Analysis Date	Cyanide	pH	filter date	Dilution	Comments
Q						(mg/L)	(pH)			
1	WG401560ICV	WC151217-3				1.969	1.0	2016	1	
2	WG401560ICB	NONE				-0.013			1	
3	WG401560LFB	WC151217-7				2.427			1	
4	L29915-01	✓ A6C1076-02				-0.044			1	
5	L29915-02	✓ A6C1076-04				-0.029	-0.029		1	
6	L29915-03	✓ A6C1076-06			SKL	-0.031	-0.031		1	
7	L29915-04	✓ A6C1076-08			4/18/16	0.016			1	
8	L29915-05	✓ A6C1076-10				-0.019			1	
9	L29915-06	✓ A6C1076-12				-0.031			1	
10	L29915-07	✓ A6C1076-14				-0.047			1	
11	L29915-08	✓ A6C1076-16				-0.054			1	
12	L29915-09	✓ A6C1076-18				-0.025			1	
13	WG401560CCV1	WC151217-6				4.995			1	
14	WG401560CCB1	NONE				-0.030			1	
15	L29915-10	✓ A6C1076-20				-0.063			1	
16	L29915-10AS	✓ WC151217-7				2.498			1	
17	L29915-10DUP	✓ NONE				-0.062			1	
18	L29915-11	✓ A6C1076-22				-0.046			1	
19	L29959-04	✓ A6C1134-08				0.008			1	
20	L29960-01	✓ A6C1124-02				-0.025			1	
21	L29960-02	✓ A6C1124-04				-0.051			1	
22	L29960-03	✓ A6C1124-06				-0.048			1	
23	L29960-04	✓ A6C1124-08				0.019			1	
24	L29960-05	✓ A6C1124-10				0.033			1	

Report Comments: _____

AREV: _____
 Initials, Date

Internal Comments: _____

SREV: _____
 Initials, Date

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
 QCListMatClass: LIQUID
 Bench Sheet List: I-SPEC-CN-THIO
 QC Ref: icv/b-ccv/b-dup-as
 Group ID: WC-G-SPC-CN-THIO
 Method Ref: SM4500 CN M
 SOP Ref: SOPWC022

WG401560



ACZ Laboratories, Inc

Instrument ID: SPEC2
 Analyst:
 ACZ Dept: 37
 Create Date: 04/18/2016 13:14
 Start Date/Time:
 End Date/Time:

SE	ACZ ID	Client ID	SubSX	Pri	Analysis Date	Cyanide (mg/L)	pH (pH)	filter date	Dilution	Comments
Q										
25	WG401560CCV2	WC151217-6				4.998	1.0	See 4/18/16	1	
26	WG401560CCB2	NONE				-0.023		NONE	1	
27	L29960-06 ✓	A6C1124-12				0.099			1	
28	L29960-07 ✓	A6C1124-14				0.014			1	
29	L29960-08 ✓	A6C1124-16			0.022	0.024 (0.022)			1	
30	L29960-08AS ✓	WC151217-7				2.571			1	
31	L29960-08DUP ✓	NONE			0.022	0.032		See 4/18/16	1	
32	WG401560CCV3	WC151217-6				5.053			1	
33	WG401560CCB3	NONE				-0.023			1	

Report Comments: _____

AREV: _____

Initials, Date

Internal Comments: _____

SREV: _____

Initials, Date

Thiocyanate

QC List Type: QC-SPEC-CN-THIO
QCListMatClass: LIQUID
Bench Sheet List: I-SPEC-CN-THIO
QC Ref: icv/b-ccv/b-dup-as
Group ID: WC-G-SPC-CN-THIO
Method Ref: SM4500 CN M
SOP Ref: SOPWC022

WG401560



ACZ Laboratories, Inc

Instrument ID: SPEC2
Analyst:
ACZ Dept: 37
Create Date: 04/18/2016 13:14
Start Date/Time:
End Date/Time:

Sample	Login Comments
L29915-01	BK
L29915-02	BK
L29915-03	BK
L29915-04	BK
L29915-05	BK
L29915-06	BK
L29915-07	BK
L29915-08	BK
L29915-09	BK
L29915-10	BK
L29915-11	BK
L29959-04	BK
L29960-01	BK
L29960-02	BK
L29960-03	BK
L29960-04	BK
L29960-05	BK
L29960-06	BK
L29960-07	BK
L29960-08	BK

Report Comments: _____

Internal Comments _____

AREV: _____

Initials, Date

SREV: _____

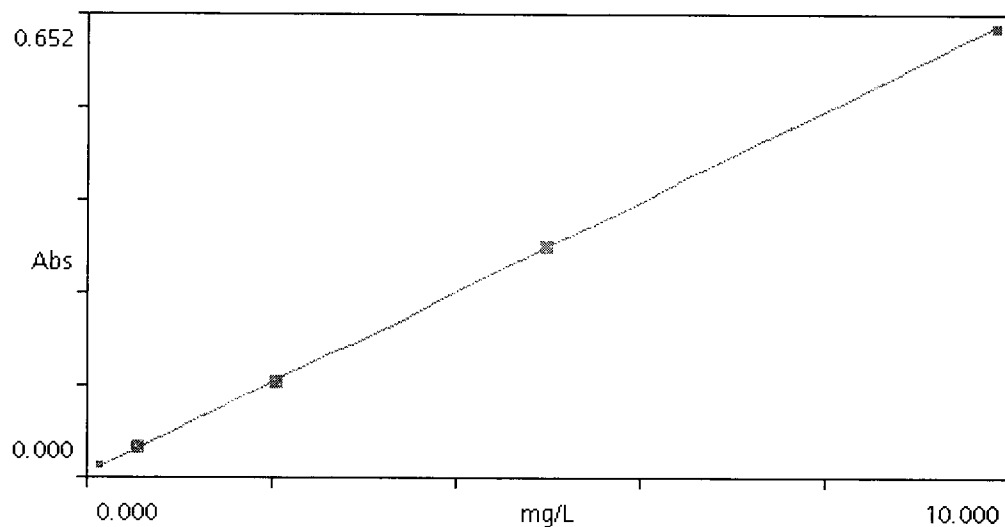
Initials, Date

Parameter: Thiocyanate

Instr: SPEC

	REAGENT	PCN/SCN	EXPIRATION DATE
Reagents:	Ferric Nitrate Color Reagent	WC160129-1	1/29/2017
	Nitric Acid	PCN 49434	3/18/17

Program: 9004
 Name: Thiocyanate
 Units: mg/L
 Wavelength: 460 nm
 Resolution: 0.001
 Chemical Form 1: SCN
 Calibration: $C = a + bA$
 a: -0.021 b: 15.353
 Curve Fit $r^2 =$ 1.0000



mg/L	Abs
0.0000	0.000
0.5000	0.035
2.0000	0.130
5.0000	0.330
10.000	0.652

Upper Limit: 13.000
 Lower Limit: -0.100
 Timer 1: Off
 Timer 2: Off
 Timer 3: Off
 Timer 4: Off
 Chemical Form 2: Off
 Chemical Form 3: Off
 Chemical Form 4: Off
 Created: 04-18-2016 16:33

WG401560

Date Reported: 19-Apr-16
 Run ID: R1391883
 Date Analyzed: 18-Apr-16
 ICAL Workgroup:
 Instrument ID: SPEC2

WG401560ICV Tag: Measured: 4/18/2016 3:30:00 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	1.97	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	99	1		%	++	0.1	0.5			

WG401560ICB Tag: Measured: 4/18/2016 3:32:58 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			

WG401560LFB Tag: Measured: 4/18/2016 3:35:56 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	2.43	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	97	1		%	++	0.1	0.5			

L29915-01 Tag: Measured: 4/18/2016 3:38:54 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-02 Tag: Measured: 4/18/2016 3:41:52 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-03 Tag: Measured: 4/18/2016 3:44:50 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-04 Tag: Measured: 4/18/2016 3:47:48 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-05 Tag: Measured: 4/18/2016 3:50:46 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-06			Tag:					Measured: 4/18/2016 3:53:44 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-07			Tag:					Measured: 4/18/2016 3:56:42 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-08			Tag:					Measured: 4/18/2016 3:59:40 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-09			Tag:					Measured: 4/18/2016 4:02:38 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

WG401560CCV1			Tag:					Measured: 4/18/2016 4:05:36 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	5	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	100	1		%	++	0.1	0.5			

WG401560CCB1			Tag:					Measured: 4/18/2016 4:08:34 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			

L29915-10			Tag:					Measured: 4/18/2016 4:11:32 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29915-10AS			Tag:					Measured: 4/18/2016 4:14:30 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	2.5	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	100	1		%	++	0.1	0.5			

L29915-10DUP			Tag:					Measured: 4/18/2016 4:17:28 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			
SREV	CYANIDE	RPD	0	1		%	++	0.1	0.5		RA	

L29915-11			Tag:					Measured: 4/18/2016 4:20:26 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TA TB	
NEED	PH	PREP	1	1		pH	++				H3 TA TB	

L29959-04			Tag:					Measured: 4/18/2016 4:23:24 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-01			Tag:					Measured: 4/18/2016 4:26:22 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-02			Tag:					Measured: 4/18/2016 4:29:20 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-03			Tag:					Measured: 4/18/2016 4:32:18 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-04			Tag:					Measured: 4/18/2016 4:35:16 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-05			Tag:					Measured: 4/18/2016 4:38:14 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

WG401560CCV2			Tag:					Measured: 4/18/2016 4:41:12 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	5	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	100	1		%	++	0.1	0.5			

WG401560CCB2			Tag:					Measured: 4/18/2016 4:44:10 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			

L29960-06			Tag:					Measured: 4/18/2016 4:47:08 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-07			Tag:					Measured: 4/18/2016 4:50:06 PM				
Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-08

Tag:

Measured: 4/18/2016 4:53:04 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	CN-THIO		1	UH	mg/L	++	0.1	0.5		H3 RA TB	
NEED	PH	PREP	1	1		pH	++				H3 TB	

L29960-08AS

Tag:

Measured: 4/18/2016 4:56:02 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	2.57	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	103	1		%	++	0.1	0.5			

L29960-08DUP

Tag:

Measured: 4/18/2016 4:59:00 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			
SREV	CYANIDE	RPD	0	1		%	++	0.1	0.5		RA	

WG401560CCV3

Tag:

Measured: 4/18/2016 5:01:58 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND	5	1		mg/L	++	0.1	0.5			
SREV	CYANIDE	REC	100	1		%	++	0.1	0.5			

WG401560CCB3

Tag:

Measured: 4/18/2016 5:04:56 PM

Status	Parm_Stored	Type	Value	Dil	Qual	Units	Appv	MDL	PQL	Text Value	Ext Qual	Signal
SREV	CYANIDE	FOUND		1	U	mg/L	++	0.1	0.5			

Apex Laboratories

Project ID: L29960

Wet Chemistry

WG401560

Thiocyanate

Sample	Date	SCN	CYANIDE
WG401560ICV	04/18/16 15:30	WC151217-3	X
WG401560ICB	04/18/16 15:32		X
WG401560LFB	04/18/16 15:35	WC151217-7	X
L29915-01	04/18/16 15:38		X
L29915-02	04/18/16 15:41		X
L29915-03	04/18/16 15:44		X
L29915-04	04/18/16 15:47		X
L29915-05	04/18/16 15:50		X
L29915-06	04/18/16 15:53		X
L29915-07	04/18/16 15:56		X
L29915-08	04/18/16 15:59		X
L29915-09	04/18/16 16:02		X
WG401560CCV1	04/18/16 16:05	WC151217-6	X
WG401560CCB1	04/18/16 16:08		X
L29915-10	04/18/16 16:11		X
L29915-10AS	04/18/16 16:14	WC151217-7	X
L29915-10DUP	04/18/16 16:17		X
L29915-11	04/18/16 16:20		X
L29959-04	04/18/16 16:23		X
L29960-01	04/18/16 16:26		X
L29960-02	04/18/16 16:29		X
L29960-03	04/18/16 16:32		X
L29960-04	04/18/16 16:35		X
L29960-05	04/18/16 16:38		X
WG401560CCV2	04/18/16 16:41	WC151217-6	X
WG401560CCB2	04/18/16 16:44		X

Apex Laboratories

Project ID: L29960

Wet Chemistry

WG401560

Thiocyanate

Sample	Date	SCN	CYANIDE
L29960-06	04/18/16 16:47		X
L29960-07	04/18/16 16:50		X
L29960-08	04/18/16 16:53		X
L29960-08AS	04/18/16 16:56	WC151217-7	X
L29960-08DUP	04/18/16 16:59		X
WG401560CCV3	04/18/16 17:01	WC151217-6	X
WG401560CCB3	04/18/16 17:04		X

Apex Laboratories
 A6C1124

ACZ Project ID: L29960
 Date Received: 04/16/2016 10:48
 Received By: ddp
 Date Printed: 4/18/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? ¹	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?		X	

Some parameters were received past hold time.

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23727	3.8	<=6.0	13	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Apex Laboratories
A6C1124

ACZ Project ID: L29960
Date Received: 04/16/2016 10:48
Received By: ddp
Date Printed: 4/18/2016

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na₂S₂O₃ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

SUBCONTRACT ORDER

L29960

Apex Laboratories

A6C1124

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

ACZ Laboratories
2773 Downhill Drive
Steamboat Springs, CO 80487
Phone : (800) 334-5493
Fax: (815) 301-3857

Sample Name: 5237-160329-DC-EMB010 **Soil** **Soil Embankmebnt-010 (0-3.5)**
Sampled: 03/29/16 10:15 (A6C1124-02)

Analysis	Due	Expires	Comments
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 10:15	Level IV DP needed Sample will be leached in house prior to sending to ACZ

Containers Supplied:
(C)4 oz Glass Jar

Sample Name: 5237-160329-DC-EMB005 **Soil** **Soil Embankmebnt-010 (0-3.5)**
Sampled: 03/29/16 10:35 (A6C1124-04)

Analysis	Due	Expires	Comments
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 10:35	Level IV DP needed Sample will be leached in house prior to sending to ACZ

Containers Supplied:
(C)4 oz Glass Jar

Sample Name: 5237-160329-DC-EMB004 **Soil** **Soil Embankmebnt-010 (0-3.5)**
Sampled: 03/29/16 11:15 (A6C1124-06)

Analysis	Due	Expires	Comments
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 11:15	Level IV DP needed Sample will be leached in house prior to sending to ACZ

Containers Supplied:
(C)4 oz Glass Jar

Sample Name: 5237-160329-DC-EMB001 **Soil** **Soil Embankmebnt-010 (0-3.5)**
Sampled: 03/29/16 12:00 (A6C1124-08)

Analysis	Due	Expires	Comments
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 12:00	Level IV DP needed Sample will be leached in house prior to sending to ACZ

Containers Supplied:
(C)4 oz Glass Jar

L29960 Chain of Custody

Standard TAT

Level IV DP

Released By *[Signature]*

Date 4/14/16

Received By WPS

Date

Released By WPS

Date

Received By RCE

Date

4-16-16 1048

SUBCONTRACT ORDER

Apex Laboratories

A6C1124

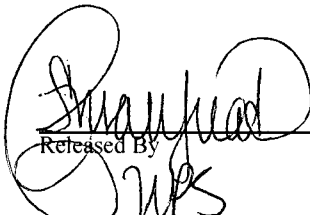
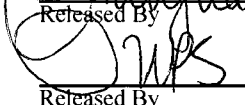
L29960

Sample Name: 5237-160329-DC-EMB013		Soil	Soil Embankmebnt-010 (0-3.5)
Analysis	Due	Expires	Sampled: 03/29/16 13:15 (A6C1124-10)
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 13:15	Level IV DP needed Sample will be leached in house prior to sending to ACZ
<i>Containers Supplied:</i> (C)4 oz Glass Jar			

Sample Name: 5237-160329-DC-EMB014		Soil	Soil Embankmebnt-010 (0-3.5)
Analysis	Due	Expires	Sampled: 03/29/16 13:40 (A6C1124-12)
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 13:40	Level IV DP needed Sample will be leached in house prior to sending to ACZ
<i>Containers Supplied:</i> (C)4 oz Glass Jar			

Sample Name: 5237-160329-DC-EMB017		Soil	Soil Embankmebnt-010 (0-3.5)
Analysis	Due	Expires	Sampled: 03/29/16 14:25 (A6C1124-14)
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 14:25	Level IV DP needed Sample will be leached in house prior to sending to ACZ
<i>Containers Supplied:</i> (C)4 oz Glass Jar			

Sample Name: 5237-160329-DC-EMB020		Soil	Soil Embankmebnt-010 (0-3.5)
Analysis	Due	Expires	Sampled: 03/29/16 15:10 (A6C1124-16)
Thiocyanate by SPLP/SM 4500 (SUB)	04/12/16 17:00	04/12/16 15:10	Level IV DP needed Sample will be leached in house prior to sending to ACZ
<i>Containers Supplied:</i> (C)4 oz Glass Jar			

Released By:  Date: 4/14/16
 Received By: WRS Date: 4-16-16 1048
 Released By:  Date: _____
 Received By: _____ Date: _____